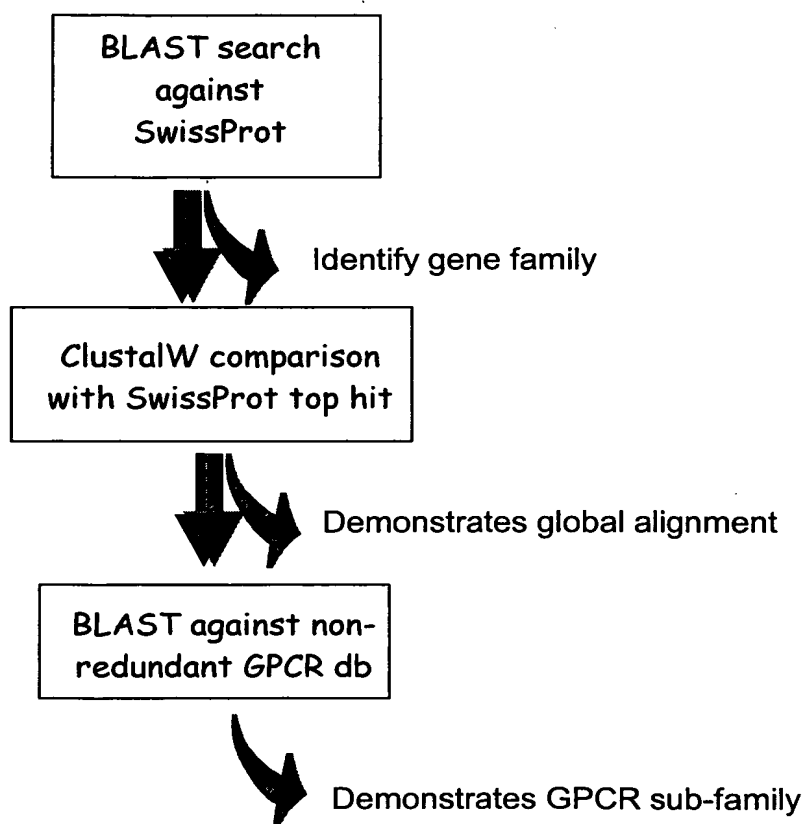


Figure 1



10023775.121801

ClustalW Alignment of PFI-019 with P2Y purinoceptor 1 (P2Y1)

5

PFI-019 MNEPLDYLA-NASDFPDYA---AAFGN-----CTDENIPLKMHYLPVIYGI
P2Y1 MTEVLWPAVPNGTDAAGFLAGPGSSWGNSTVASTAAVSSSFKCALTKTGQFYFLPAVYIL
. * .*.* * * :::* * : : :::***.* :

10

PFI-019 IFLVGFPGNAVVISTYIFKMRPWKSSTIIMLNLA CTDDL YLTS LPFLIHY YAS GENWIFG
P2Y1 VFIIGFLGNSVAIWMFVFHMKPWSGISVYMFNLALADFLYVLTLPALIFYFYFNKTDWIFG
:>::** **:*. * ::*:**.. :: *::** :*:** :** **.* . :****

15

PFI-019 DFMCKFIRFSFHFNL YSSILFLT CFSIFRYCVIIHPMSCFSIHKTRCAVVACAVVWIISL
P2Y1 DAMCKLQRFIFHVNL YGSILFLT CISAHRYSGVVYPLKSLGRLKKKNAICISVLVWLIVV
* ***: ** **.***.***.***.* :*: :*: .*. * : ..**:* :

20

PFI-019 VAVIPMTFLITSTNRTNRS-ACLDLTSSDELNTIKWYNLILTATTFCLPLVIVTLCTYTTI
P2Y1 VAISPILFYSGTGVRKNKTITCYDTSDEYLR SYFIYS MCTTVAMFCVPLVLILGCYGLI
: *: * : *.*: :* * **.: *: : *: *: **:*: : ** *

25

PFI-019 IHTLTHGLQTDSC LKQKARRLTILLLLAFYVCFLPFHILRVIRIESRLLSIS---CSIEN
P2Y1 VRALIYKDLDNSPLRRKSIYLVIIVLT VFAVS YIPFHV MKTMNLRARLDFQTPAMCAFND
::*: : :* *:*: *.*: * .*:***: : : :*: : *:::

30

PFI-019 QIHEAYIVSRPLAALNTFGNLLLYVVVSDNFQQAVCSTVR---CKVSGNLEQ-AKKISYS
P2Y1 RVYATYQVTRGLASLNSCVDPILYFLAGD TFRRLSRATRKASRRSEANLQSKSEDMTLN
::: * *: * **: **: : :**..*.**: : .*. : ..**.: :::: .

30

PFI-019 NNP-----
P2Y1 ILPEFKQNGDTSL
*

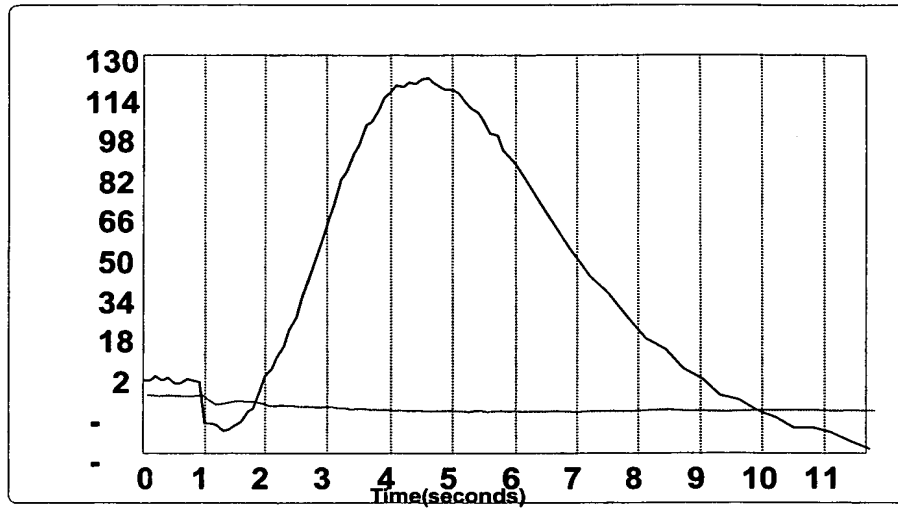
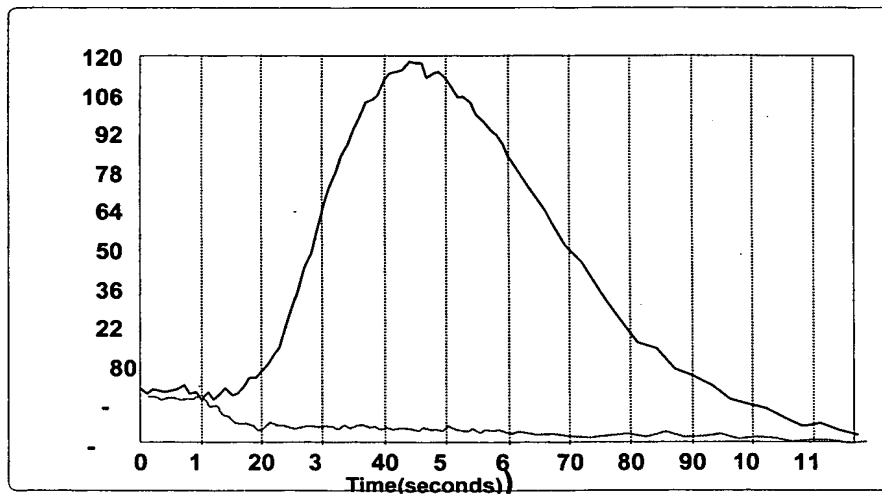
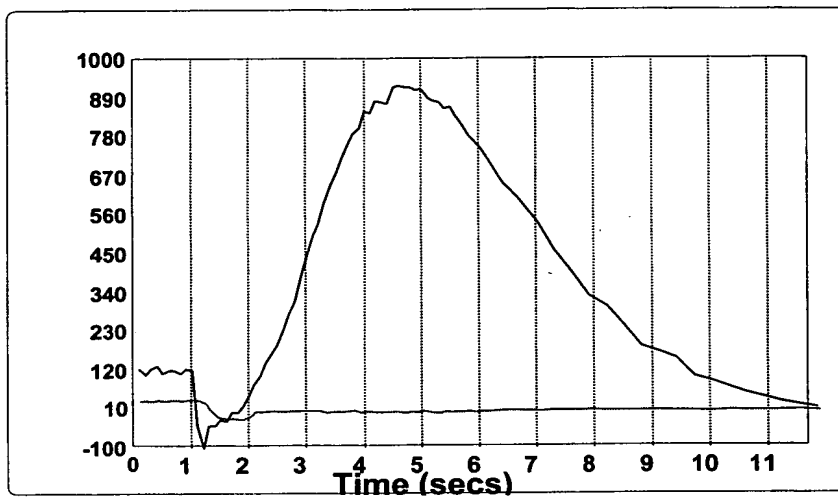
Figure 3: Stimulation of PFI-019 by 2-chloro-ATP**Figure 4: Stimulation of PFI-019 by 2-methyl-thio-ATP**

Figure 5: Stimulation of PFI-019 by 2-methyl-thio-ADP**Figure 6: Stimulation of PFI-019 by UTP**